**Premo-Flex™ FFC jumpers, available in a variety of pitches, cable lengths and thicknesses, plus high-temperature ratings up to +105°C, deliver durable, ultra flexible, low-cost solutions for PCB connections in virtually any industry**

The complete line of 0.50, 1.00 and 1.25mm pitch flat flex cable (FFC) jumpers offers standard lengths, pitches and circuit sizes to accommodate a wide range of flexible interconnect requirements between two PC boards. Standard, off-the-shelf FFC cable jumpers reduce lead-times and tooling costs to the customer. In addition, Molex can also accommodate custom requirements for FFC cable jumpers in lengths of over 305mm, with prototype lead-times of around 1 week.

The flat flex jumpers are terminated to Zero Insertion Force (ZIF), non-ZIF or Low Insertion Force (LIF) FFC connectors, available from Molex. Premo-Flex standard flat flex jumpers are now available in ultra-thin, ultra-flexible 0.12mm cable, ideal for complex board-to-board interconnections in confined spaces.

Molex offers an extensive range of FFC connectors and is able to design customized FFC connectors to customer requirements. Type A (same-side) and Type D (opposite-side) contact layouts allow for mirrored contacts in top- and bottom-mount ZIF applications. For additional information visit: www.molex.com/product/premoflex_ffc-fpc.html

# Premo-Flex™ Flat Flex Cable Jumpers

**Cable Thickness 0.12mm**

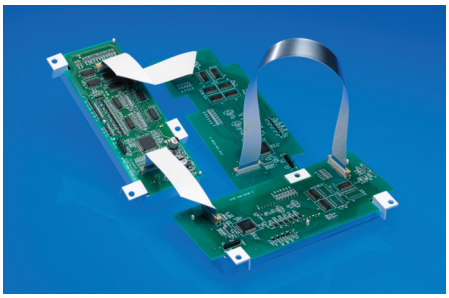
15166 Tin, 0.50mm Pitch, 105°C
15167 Tin, 1.00mm Pitch, 105°C
15168 Tin, 1.25mm Pitch, 105°C

**Cable Thickness 0.22mm**

98266 Tin, 0.50mm Pitch, 105°C
98267 Tin, 1.00mm Pitch, 105°C
98268 Tin, 1.25mm Pitch, 105°C

**Cable Thickness 0.27mm**

21020 Tin, 0.50mm Pitch, 80°C
21039 Tin, 1.00mm Pitch, 80°C
21049 Tin, 1.25mm Pitch, 80°C
15266 Tin, 0.50mm Pitch, 105°C
15267 Tin, 1.00mm Pitch, 105°C
15268 Tin, 1.25mm Pitch, 105°C
15020 Gold, 0.50mm Pitch, 105°C
15039 Gold, 1.00mm Pitch, 105°C
15049 Gold, 1.25mm Pitch, 105°C



Premo-Flex™ Flat Flex Jumpers

## FEATURES AND BENEFITS

| | |
|---|---|
| • Available in numerous circuit sizes (4 to 60) and custom lengths | • Provides limitless design-in options |
| • Contact area can be configured on the same or opposite sides of the flexible cable jumper | • Cable mirrors signal layout between PCBs |
| • Rated up to +105°C | • Meets industry-standard requirements |
| • Simple assembly process | • Ideal for electrical connections between PCBs, display boards, etc. |
| • Various cable termination thicknesses | • Meets industry-standard ZIF connector requirements<br>• Ease-of-assembly in hard-to-reach applications |
| • Polyester insulation | • Meets Registration Evaluation, Authorization and Restriction of Chemicals (REACH) requirements |
| • Ultra-thin, ultra-flexible 0.12mm cable option | • Extends life of cable: 900,000 cycles vs. standard jumper flex life of 6,000 cycles |

## MARKETS AND APPLICATIONS

- Automotive
  - Radio, CD, DVD, GPS device
  - LCD display
  - Keyboard
  - Moveable units
- Consumer
  - Set top box
  - Camcorder
  - Plasma display
- Computer
  - Notebook
  - Printer
  - Scanner
  - Keyboard
  - LCD flat panel
- Industrial
- Medical Equipment
- Military
- Home Appliance
  - Control Panels

Automotive Electronics

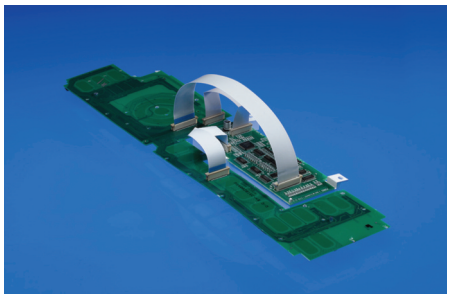
Surgery Lamp

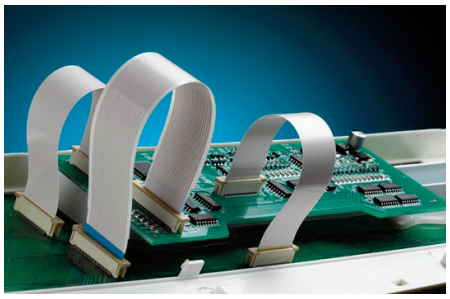
## SPECIFICATIONS

### Reference Information
Packaging: Box
UL Style No: 20706 (copper wire)
Flame Resistance: UL 758 VW-1
RoHS: Yes
Halogen Free: Yes

### Physical
Temperature Rating: -40 to +105°C
Heat Resistance: 168 hours at +136°C
Moisture Resistance: 96 hours at +60°C, 95% Relative Humidity (RH)
Folding: Specimen to be folded manually at +180° over a 4.00mm (.157") radius, min. 20 cycles

### Electrical
Voltage (max.): 60V
Current (max.):
0.50mm Pitch — 0.5A
1.00mm Pitch — 1.2A
1.25mm Pitch — 1.4A
Conductor Resistance: 730 ohms per km. max.
Insulation Resistance: 10 Megohms per km. min.
Dielectric Test: 200V AC for 1 minute, no disrupted discharge





Control Panels

# Premo-Flex™ Flat Flex Cable Jumpers

**Cable Thickness 0.12mm**
15166 Tin, 0.50mm Pitch, 105°C
15167 Tin, 1.00mm Pitch, 105°C
15168 Tin, 1.25mm Pitch, 105°C

**Cable Thickness 0.22mm**
98266 Tin, 0.50mm Pitch, 105°C
98267 Tin, 1.00mm Pitch, 105°C
98268 Tin, 1.25mm Pitch, 105°C

**Cable Thickness 0.27mm**
21020 Tin, 0.50mm Pitch, 80°C
21039 Tin, 1.00mm Pitch, 80°C
21049 Tin, 1.25mm Pitch, 80°C
15266 Tin, 0.50mm Pitch, 105°C
15267 Tin, 1.00mm Pitch, 105°C
15268 Tin, 1.25mm Pitch, 105°C
15020 Gold, 0.50mm Pitch, 105°C
15039 Gold, 1.00mm Pitch, 105°C
15049 Gold, 1.25mm Pitch, 105°C

## ORDERING INFORMATION

| Series No. | Plating Material | Cable Thickness mm | Pitch mm | Temp Rating Max. °C | Circuits | Contact Layout Type | Cable Lengths | Minimum Order Quantity |
|---|---|---|---|---|---|---|---|---|
| 15166-XXXX | Tin | 0.12 | 0.50 | 105 | 6 to 60 | A or D | Standard lengths 30 up to 305mm<br>Custom lengths available over 305mm | 1000 |
| 15167-XXXX | | | 1.00 | | | | | |
| 15168-XXXX | | | 1.25 | | | | | |
| 98266-XXXX | | 0.22 | 0.50 | | 6 to 50 | | | |
| 98267-XXXX | | | 1.00 | | 4 to 50 | | | |
| 98268-XXXX | | | 1.25 | | | | | |
| 21020-XXXX | | 0.27 | 0.50 | 80 | 6 to 50 | | | |
| 21039-XXXX | | | 1.00 | | | | | |
| 21049-XXXX | | | 1.25 | | | | | |
| 15266-XXXX | | | 0.50 | 105 | 4 to 50 | | | |
| 15267-XXXX | | | 1.00 | | | | | |
| 15268-XXXX | | | 1.25 | | | | | |
| 15020-XXXX | Gold | | 0.50 | | 6 to 50 | | | |
| 15039-XXXX | | | 1.00 | | 4 to 50 | | | |
| 15049-XXXX | | | 1.25 | | | | | |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**Данный компонент на территории Российской Федерации**

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http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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